



DIRECTORATE OF SEED RESEARCH
(Indian Council of Agricultural Research)
Post Bag No. 11, Village : Kushmaur
PO : Kaithauli, Mau 275 101 (UP), INDIA



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F.No.05-DSR/2012-13/S&P-42/

Dated: 04.01.2013

TENDER NOTICE

On behalf of President, ICAR, the Project Director, Directorate of Seed Research, Kushmaur, Mau (UP) invites sealed tenders from manufactures and reputed dealers for the supply of under mention equipments with the required bid security (EMD).

S.No.	Name of equipments	Qty. needed	Bid Security (EMD) in Rs.
1.	Ice Flaking Machine	01	5,100
2.	Freeze Dryer (Lyophiliser)	01	18,000
3.	Autoclave	01	6,000
4.	BOD Incubator	01	2,250
5.	Oven	02	3,000
6.	Vertical Electrophoresis	02	9,000
7.	High precession analytical balance	01	3,000
8.	Self propelled reaper	01	6,000
9.	Meteorological work station with accessories	01	30,000
10.	Power tiller with accessories	01	3,600
11.	Self propelled field/plot combine	01	13,500
12.	Sprinkler system	01	6,000
13.	Multistack Incubator Shaker	01	15,000
14.	Low Temperature Freezer (-20 degree)	01	9,000
15.	Soxhlet Apparatus	01	8,250
16.	Dehumidifier	02	15,000
17.	Office automation	01	25,000
18.	Seed Coat colour sorting machine	01	9,000

The tender form document along with detailed specification etc. in respect of the above items may be **downloaded from DSR website www.dsr.org.in** . The Tender should be submitted with the attachment of separate DD of each equipment of Rs. 500/- as tender fee and separate EMD of each equipment in shape of DD/BG payable to the Project Director, ICAR Unit DSR, Mau payable at SBI, Maunath Bhanjan Branch (code 01671) on the scheduled date and time positively. Any tender form received after stipulated date & time, as specified mention below shall be deemed as summarily rejected. The received tender will be opened on the stipulated date & time in the presence of tendered or their authorised agents (if any) by the authorised committee. The Competent Authority reserves the right to accept or reject the tenders at any time/stage without assigning any reason thereof. **All rates should be quoted in Indian Rupees only. Separate tenders froms along with seperate EMD will be required for each items and single bid system will be followed.**

The schedule of tender is as follows:

S.No.	Particular	Time & Address
1.	Date of downloading of tender from DSR Website	06.01.2013
2.	Last date of acceptance of tenders	29.01.2013 upto 12.30 PM (Noon)
3.	Date & time for opening the tenders	29.01.2013 at 3.00 PM
4.	Duly filled in and sealed tender from should be submitted	Project Director, Directorate of Seed Research, Post Bag No. 11, Village: Kushmaur, PO: Kaithauli, Mau 275101 (UP)

(Store & Purchase Officer)



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Phone : 0547-2530386 (O)
Fax : 0547-2530325
E-mail: spodsr@gmail.com

Tender Enquiry No. DSR/2012-13/S & P- 42/

Dated: 04.01.2013

To,

.....
.....
.....

Sub: Purchase of Equipments - reg.

Dear Sir,

We have a requirement of above said services for which you are invited to submit your most competitive quotation for the same. The envelope containing the quotations should be super scribed as "**TENDER FOR(Equipment name)**". Tender should reach at **Project Director, Directorate of Seed Reserch Post Bag No. 11, Village: Kushmaur, PO: Kaithauli, Mau 275101 (UP)** ON **29.01.2013 upto 12.30 (Noon)** which will be opened at **3.00 PM on 29.01.2013**. All the relevant details are given below:

- I. Description of the goods required and the required quantity : (As enclosed in Annexure-I)
- II.Guiding specification and other Technical Details : (As enclosed in Annexure-II)
- III.Terms of delivery (Delivery at site) : **FOR DSR, MAU**
- IV.Delivery period for goods : **Within 30 days from the date of the Purchaser's signing the Contract .**
- V.Erection/installation and commissioning (if required, depending on the goods ordered) are to be completed within 07 (seven) days of delivery of the goods at site.
- VI. Terms of Inspection by the purchaser's representative: **Indenting Officer**
- VII. Training of Purchaser's operator(s) for operating the goods ordered, as and if necessary DSR operator (s) for operating the goods ordered, as and if necessary DSR operator(s) is/are to be trained for a period of 02 days/weeks at purchaser's premises/supplier's premises for successfully operating the goods purchased. The training shall be completed by within 07 days of installation.

viii) Price structure:

- a. The tenderer shall quote for the complete requirement of goods & services. And for the full quantity as shown against a serial number in the list of requirements in Annexure-1, the tenderers are, however, free not to quote against all the serial numbers mentioned in the List of Requirements (in case there are more than one serial number in the list of requirements).
- b. **Specification quoted by the firm should be attached literature, leaflet/broacher of the equipments with the tender documents essentially.**
- c. All duties, taxes and levies payable by the supplier under the contract shall be included in the quoted price. The purchaser will not pay any such duties, taxes and levies separately. However, VAT/S.T., as legally and contractually liveable, will be quoted separately by indicating the nature and the current rate of VAT/Sales Tax, as applicable at the time of quoting. The sales tax will be paid extra at actual at the time of supply provided the transaction of sale is legally liable to sales tax and the amount of the sales tax is contractually payable. If the supplier in its quotation does not ask for sales tax extra, the same shall not be paid even if asks for the same at the later date.
- d. The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account whatsoever, including statutory variations, if any. However, sales tax will be paid extra as per provision under Clause viii (c) above.

ix) Receipt of goods and Terms of Payment:

- a. Payment terms for supply of goods, including erection/ installation and commissioning (as and if applicable).

Immediately on receiving the goods at site, the purchaser will verify the quantities of the items supplied as specified in the delivery challan of the supplier and also check for any superficial damage etc. in the goods so supplied and issue a provisional receipt accordingly. If the goods supplied do not require erection/ installation and commissioning at site, the purchaser, within two working days of issue of the provisional receipt, will issue acceptance certificate(of the goods) to the supplier, provided the goods supplied are acceptable in terms of the contract. However, if the goods supplied also need erection/ installation and commissioning, the purchaser will issue acceptance certificate within two working days, after successful erection/ installation and commissioning. The supplier will then send its invoice along with the purchaser's acceptance certificate and other accompanying documents to the paying authority for payment.

The paying authority will release the full payment to the supplier as due in terms of the contract, within fifteen working days of receipt of supplier's invoice, purchaser's receipt certificate and other accompanying documents, provided the same are in order.

B.Payment for training of purchaser's operator(s), if applicable

After release of payment to the supplier as per sub-para (a) above and after successful completion of training of the operator(s) in terms of the contract, the purchaser will immediately issue a certificate to this effect to the supplier. The supplier will thereafter send its invoice for training charges, if any, along with the above certificate to the paying authority. The paying authority will release the payment to the supplier in terms of the contract within 15 working days of receipt of supplier's invoice provided the invoice and the accompanying documents are in order.

x) Paying Authority: The Finance & Accounts Officer, on behalf of the Project Director, DSR, Mau

xi) Liquidated Damage Clause:

If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and the likely duration of the same. After receipt of supplier's communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably by issuing an amendment to the contract. If the supplier fails to deliver the goods and/or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half per cent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten per cent) of the contract price of the delayed goods or services, after which the order will be treated, cancelled. The liquidated damage will also include damage due to delay in supply, installation and training

Further, during such delayed period of supply and/or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay.

The purchaser's letter (to the supplier, with copies endorsed to other concerned) extending the delivery period will be subject to the above conditions.

xii) Warranty Clause: Manufacturer's standard warranty clause is acceptable.

xiii) Dispute Resolution Mechanism:

If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intention to refer the same to arbitration. The arbitration shall commence thereafter. The arbitration shall be conducted by a sole arbitrator, who will be appointed by the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian Arbitration and Conciliation Act 1996. The venue of the arbitration shall be the place from where the contract is issued.

2. You are also required to fulfil the following conditions and furnish the details as indicated in subsequent paragraphs.
- a. At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods and services as specified in the List of Requirements, without any change in the unit price or other terms and conditions.
- b. Please furnish a certified copy of your latest ITCC (Income Tax Clearance Certificate) or relevant supporting documents.
- c. Please indicate if you are currently registered with any Govt. Organization and if registered, furnish all relevant details.
- d. Please states whether business dealings with your firm presently stand banned by any Government organization and, if so, furnish relevant details.

- e. A supplier shall not submit more than one quotation for the same set of goods. No pooling should be done in association with any other supplier.
- f. The supplier shall at all times identify the purchaser, at no cost to the purchaser, against all third party claims of infringement of patent, trademark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
- g. Correction or over-writing in the tender document is not permissible. The quotation(s) as well as the contract shall be written in English language. All correspondence and other documents pertaining to the quotation(s) and the contract, which the parties exchange, shall also be written in English.

The quotation and all correspondence and documents relating to the quotation Exchanged between the bidder and the purchaser may also be written in Hindi language provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the quotation, the English translation shall govern.

- h. The contract shall be governed by the laws of India and interpreted in accordance with such laws.
- i. The quotation/offer shall remain valid for acceptance for a period not less than 90 days after the specified date of opening of the offers.
- j. DD as Tender Fee & DD/BG as Earnest Money in favour of “ **The Project Director, ICAR Unit DSR, Mau payable at SBI, Maunath Bhanjan, Branch code 01671**” is to be enclosed along with the quotation. No quotation shall be considered without the earnest money deposit (EMD).
- k. In case, the successful bidder shows inability at any stage, after the contract is finalised and awarded for whatsoever reason(s), to honour the contract, the EMD/Performance Security deposited would be forfeited.
- l. **The firm whom the tender will be awarded, will have to deposit the performance security equal to 5% of the total amount tentatively arrived till such time the period of contract expires. If the supply/services are not found to be satisfactory, the performance security is liable to be forfeited.**
- m. PAN No./ TIN No. and other details should be provided in Annexure-IV.

- 3. The quotation shall be sealed in an envelope. The envelope shall be addressed to the purchaser and it should also bear the "Tender enquiry no. and the words **"DO NOT OPEN BEFORE 3.00 PM ON 29.01.2013** (The time and date of opening of the tenders)". This envelope should then be put inside another envelope, which will also be duly sealed. The outer envelope will bear the full address of the purchaser. The supplier must ensure that its tender (i.e. quotation), duly sealed as above, reaches the purchaser at least one hour before the time and date of opening of tenders. The supplier may, at its choice, send the tender by regd. post or by speed post. Alternatively, the supplier may also hand delivery the tender to the purchaser in which case the purchaser shall give the supplier a receipt, indicating the time & date of receipt of the tender.
- 4. The tenders, which are received late by the purchaser will be ignored. Further, the purchaser does not accept any liability and responsibility for the tenders in case the same are not properly sealed and marked and/or sent as above.
- 5. The tenders, which are received on time (as per para 3 above), will be opened at DSR Office, IARI Campus, New Delhi at **3.00 PM ON 29.01.2013** (date). The purchaser will open the tenders in the presence of the tender's duly authorized representatives, who choose to attend the tender opening.
- 6. The purchaser will evaluate and compare the quotations which are substantially responsive i.e. which are properly prepared and signed and meet the required terms, conditions, specifications etc. The purchaser will award the contract to the supplier whose quotation will be determined to be responsive and offering the best evaluated deal.

7. Notwithstanding the above, the purchaser reserves the right to accept or reject any quotation or annual the tendering process and reject all quotations at any time prior to award of the contract, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tenderer or tenders.
8. Please submit your quotation accordingly. You shall sign all the pages of your quotation. Your price quotation may be furnished in the format enclosed as Annexure-III. You are also required to return this original tender enquiry (all the pages), as it is, duly signed by you on every page, for our record. You may retain a photocopy of this tender enquiry for your records.

Encl: Annexure-I,II,III

(Signature of the Purchaser/representative)

Note: Kindly furnish the following information along with your quotation:

Name of the firm	Account No. of the firm	Name of the bank and branch with code where A/c exists	Whether branch is CBS or not

(Signature of the Propwriter /representative of the firm)

LIST OF REQUIREMENTS

S.No.	Description of Goods and allied services	Quantity
1.	Ice Flaking Machine	01
2.	Freeze Dryer (Lyophiliser)	01
3.	Autoclave	01
4.	BOD Incubator	01
5.	Oven	02
6.	Vertical Electrophoresis	02
7.	High precession analytical balance	01
8.	Self propelled reaper	01
9.	Meteorological work station with accessories	01
10.	Power tiller with accessories	01
11.	Self propelled field/plot combine	01
12.	Sprinkler system	01
13.	Multistack Incubator Shaker	01
14.	Low Temperature Freezer (-20 degree)	01
15.	Soxhlet Apparatus	01
16.	Dehumidifier	02
17.	Office automation	01
18.	Seed Coat colour sorting machine	01

The envelope shall be addressed to the purchaser and it should also bear the “Tender enquiry no. with equipment name and the words **“Do not open before 3.00 PM on 29.01.2013** (The time and date of opening of the tenders)”.

Please specify the make and model for item no. 1 and also attach relevant document/literature (if available) illustrating detail specification of the product.

Special instruction (if any) -----

Annexure-II

DETAILED TECHNICAL SPECIFICATIONS & OTHER TECHNICAL DETAILS OF THE ITEMS
AND SERVICES (SHOWN IN ANNEXURE-1)

List Attached

FORMAT OF PRICE QUOTATION

S. No.	Description of goods & allied services	Specification	Qty.	TAXES			Total amount
				VAT	ST	Installation	

Grand Total: Rs.

Total in words:

- “Details of applicable VAT/S.T. to be paid extra and the current rate of the same.
- We agree to print the above goods & allied services. We confirm that the same and attached the relevant documents.
- (In case a tenderer desires to put some additional/modified stipulations, terms & conditions etc. the same may be clearly indicated).
- We confirm that our offer will remain valid or acceptance for.....days after the date of opening of tenders.

.....
(Signature, name and designation of the authorized executive of the tendering firm)
For and on behalf of.....

(Name and address of the tendering firm)

(Seal of the tendering firm)

Date:

Place:

Annexure-IV

Name of the Firm : -----

Registered/Postal Address : -----

1.	Phone number/Mobile number	
2.	E-mail Address	
3.	PAN No.	
4.	VAT/TIN no., if applicable	
5.	Bank Details : Bank Name Branch Address Account no. Type of account (Current/Savings)	

Firms data sheet

A.

1. Name of the firm :
2. Address :
3. Phone No. :
4. Mobile No. :
5. Fax :
6. E-mail :
7. Contact Person :
8. Contact Person mobile No. :

B. Basic details of the firms (if the bank is SBI)

1. Name of the Bank Account :
(This should be same as name of the firm)
2. Bank with branch code :
3. Bank address :
4. Account No. :
5. Whether core banking facility is the bank branch:

**BANK GUARANTEE FORMAT FOR FURNISHING EMD
(Ref. Para 7.1 of Chapter 7)**

Whereas.....
(hereinafter called the "Tenderer")
has submitted their offer dated..... for the supply
of..... against the purchaser's tender enquiry no.
(hereinafter called the "Tender")
..... KNOW ALL MEN by these presents that
We..... of..... having our registered office
at are bound unto.....
(hereinafter called the "Purchaser")

in the sum of..... for which
payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and
assigns by these presents. Sealed with the common seal of the said Bank thisday
of.....20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

1. If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender
2. If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a. If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - b. Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the Officer

Seal, name & address of the Bank and address of the Branch

**BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY
(Ref. para 7.4 of chapter 7)**

To
The President of India

WHEREAS (name and address of “the supplier”)
(hereinafter called “the supplier”) has undertaken, in pursuance of contract no.
..... dated..... to supply (description of goods and services)
(hereinafter called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of 20.....

(Signature of the authorized officer of the Bank)

Name and designation of the Officer: -----

Seal, name & address of the Bank and address of the branch

Equipment Specification

Ice Flaking Machine

Type of Ice: Flakes

Production Capacity: 80-100 Kg/24Hrs

Storage Capacity of built-in Bin: 20-25 Kg

Sealed compressor should be there along with CFC Free refrigerant gas for long life

Freezing Cylinder should be made of Stainless Steel

Condensation/Cooling: Air Cooled

Stainless steel, corrosion free with puf insulated cabinet should be there with stainless steel exterior chamber

Storage Bin: External construction of stainless steel and internal construction is heat-foamed, food safe polyethylene cell with polyurethane foam (PUF) providing a high degree of insulation.

Noise Level should be very low noise

Microprocessor controlled system along with visual alarm indicators

Safety control: Microprocessor control against failure of refrigerant & water.

Machine should shut off when water is not available in line and resumes when water is available.

Machine should stop when the Bin is full and resumes when sufficient ice is taken from the Bin.

An out let should be provided to drain water from the Bin to protect it from contamination.

Machine should shut off and indicate if the Refrigerant is not sufficient to produce Ice.

Machine should contain Silver (Ag ion) Antimicrobial treatment

Machine should be recognised by ISO for its quality and certified.

Table Top model with castor wheels for easy movement.

Should be supplied with Voltage Stabilizer and Pre-Water Filter

FREEZE DRYER (LYOPHILISER) SPECIFICATION

Bench top Freeze Dryer / Lyophiliser with Air cooled, CFC and HCFC free refrigerant, vacuum pump, Acrylic Chamber and other essential accessories for working.

2-3 kg ice / 3-4 liter water condensing capacity or more with condenser temperature of minimum – 53 Deg C.

Condenser's solvent condensing capacity should be at least 2 kg /24 hour for aquas solvent.

System should have digital Lyo display interface for simultaneous display of at least two parameters mentioned below.

- Ice condenser temperature
- Digital Vacuum display and
- Indirect product temperature control corresponding to Vapour Pressure Curve above ice, by simply push button control.
- Timer

High quality vacuum sensor for display of vacuum on Lyo display.

System should have drying chamber with manifold for various accessories (7-9 round bottom flask, wide –neck filter bottles or distributors for ampoules, Sealing in vials) system must have three unheated selves Diameter 200-210 mm for drying in plates.

Option for injection vial-stoppering device with two selves diameter 200-210 mm.

Vacuum pump should have at least 35-45 L / min suction capacity and exhaust mist filter, vacuum grease, vacuum pump oil also should be with pump.

System should be supplied with Suitable Servo Stabilizer and must be quoted complete working configuration and minimum 4 to 6 liter of vacuum oil.

Onsite warranty

Delivery up to DSR MAU

Stabilizer, one year running consumables.

AUTOCLAVE SPECIFICATION

Working pressure 5-25 PSI.

Inside chamber made of SS 300-310 grade with size of 90-100 liters capacity.

Outer wall MS covered with SS sheat.

Mechanical Timer 0-60 Minutes.

Digital temperature indicator instead of temperature gauge.

Automatic pressure Control Switch (Indfoss Piezostat).

Automatic Low water cut off device for element.

Digital Pressure Control Switch.

Vacuum Breaker.

Onsite warranty.

Delivery up to DSR MAU.

BOD INCUBATOR SPECIFICATION

Double walled.

Fitted with unbreakable transparent door.

Temperature range 0 °C to 60 °C \pm 1° C and controlled by Digital Fuzzy Controller with Jog-Shuttle Switch (Turn + Push) with PT-10Ω Sensor.

Dimension :

Inner-W 500-510 x D 500-510 x H 1000-1010mm

Outer-W 650-660 x D 790-800 x H 1590-1600mm

Capacity: 250 Lit.

Heater: 1.kw.

Refrigerator 1/3 HP.

2-3 air circulating fans must be fitted inside.

Chamber puff insulated to maintain the uniformity of temperature.

Interior Illumination with 2-4 Nos. of fluorescent tubes.

Shelves: 3 or 5 shelves of adjustable

Power: AC 220V, 60Hz.

Onsite warranty.

Delivery up to DSR MAU.

Stabilizer, One year running consumables.

OVEN SPECIFICATION

Dimension:

300-310×300-310×300-310(Interior)

505-510×480-485×575-580(Exterior)

Capacity : 30 ltr

Heater : 300W×2ea

Temperature range: 5 °C to 200 °C

Accuracy: ± 0.5 °C.

Temp. Controller: Digital Fuzzy Controller with Jog-Shuttle Switch (Turn + Push).

Timer : 98-100 hr 58-60 min, (Delay & Continuous Function Included)

Material: SS

Internal: Stainless Steel

External: Powder Coated Steel

Window: Tempered Safety Glass12T, Poly carbonate 5T for safety

Shelves: 3-4 Aluminum shelves

Vacuum Range : 10 ~ 750 mmHg

Safety Device: Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker

Interface for Monitoring and Controlling with PC

Storage Function (Temp., Timer)

Locking Mode (Jog-Shuttle Input disabled)

Alarm (Error Status and Timer-end)

AC 110 V, 60 Hz or AC 220 V, 50 / 60 Hz

Power Supply 230 v/50 hZ.

Vertical Electrophoresis Unit**Specification :-**

Number of gel	1-4
Gel size (W×L)	16×16cm
Glass plate size (W×L)	
Inner plate	20×16cm
Outer plate	20×18.3cm
Spacer length	18.3cm
Upper buffer volume	350ml
Lower buffer volume	1.8L
Run time for SDS –PAGE	4 hr
With cooling	2.5hr

SPECIFICATION OF HIGH PRECISION ANALYTIC BALANCE:

1. Precise result in short time.
2. Touch screen operation
3. Weighing range- 0 to 50-100 gram
4. Readability- Less than .0001 gram
5. Adjustment- Automatic
6. Minimum weight: Less than .008g
7. Overload Protection.

Specification of Self Propelled Reaper

Application Details:	
Length	: 94.5"
>	: 45.3"
>	: 43.3"
Weight	: 180 Kg.
Engine	: ISI Mark
Fuel Cons.	: 1.25 Ltr/Hour (Approx)
Speed	: 3 Km./Hour
Area Covered	: 0.5 Acre/Hour (Approx) Enables Reaping Work of 3 feet

SPECIFICATION OF AUTOMATIC WEATHER STATION

S. No.	Particular		Specification
1.	Display	:	16 Characters x 2 Lines LCD
2.	Air Temperature		
a.	Type	:	Digital Sensor
b.	Temperature Range	:	-40°C to +60°C
c.	Accuracy	:	± 0.2 °C or better (with radiation shield)
d.	Resolution	:	0.01°C
e.	Sensor Type	:	Resistance type
f.	Response Time	:	10 sec or better
3.	Wind Speed		
a.	Range (Operation)	:	0 to 67 m/s or better
b.	Sustainability	:	Up to 75 m/sec
c.	Accuracy	:	0.5 m/s or better
d.	Resolution	:	0.01 m/s
e.	Sensor Type	:	Ultrasonic
f.	Sensing	:	Opto Couple
g.	Threshold	:	0.2 m/s or less
h.	Input	:	5V DC
i.	Current consumption	:	7M amp@5 V DC
j.	Output	:	4-20 m amp (open collector, Digital)
k.	Response time	:	10 sec. or better
l.	Operation temperature	:	-35°C up to + 70°C
m.	Operation humidity range	:	< 5 % up to 100 %
4.	Wind Direction Sensor		
a.	Range	:	0 to 360 Degrees
b.	Sensing	:	Smart position pot
c.	Accuracy	:	± 3 degrees or better
d.	Resolution	:	1 deg.
e.	Sensor Type	:	Ultrasonic
f.	Threshold	:	0.5 m/s or better
g.	Input	:	0 to 5 v
h.	Response time	:	10 sec. or better
5.	Pressure Sensor		
a.	Range (with single sensor)	:	600 to 1100 hPa
b.	Accuracy	:	0.2 hPa or better
c.	Resolution	:	0.1 hPa
d.	Sensor Type	:	Solid state
e.	Response Time	:	10 sec. or better

6.	Relative Humidity Sensor		
a.	Range	:	0 to 100% RH
b.	Accuracy	:	$\pm 3\%$ or better
c.	Resolution	:	0.5%
d.	Sensor Type	:	Capacitive / Solid-state
e.	Long term stability	:	Typ<1%RH/Year
f.	Repeatability	:	$\pm 0.1\%$
g.	Output	:	Digital
h.	Response Time	:	10 sec. or better
7.	Rainfall Sensor		
a.	Range	:	0 to 1023 mm/hr
b.	Catchment Area	:	200 CM Square
c.	Accuracy	:	5% or better
d.	Resolution	:	0.2 mm
e.	Sensor Type	:	Tipping bucket rain gauge or any other suitable sensor.
f.	Sensing	:	Magnet & Reed Switch
g.	Capacity	:	Unlimited
h.	Option for Snow bound AWS	:	Rainfall/snowfall measurement may be added
8.	Solar Radiation Sensor		
a.	Range	:	0 to 2000 W/m ²
b.	Cosine response @ 45° zenith angle	:	$\pm 4\%$
c.	Cosine response @ 75° zenith angle	:	$\pm 10\%$
d.	Repeatability	:	$\pm 1\%$
e.	Accuracy	:	$\pm 5\%$ or better
f.	Sensitivity	:	Custom calibrated to exactly 5.0 W m ⁻² /mV
g.	Operating environment	:	40 to 55° C & 0 to 100 % RH
9.	Global Radiation Sensor		
a.	Special Range	:	305-2800 nm
b.	Sensitivity	:	15 μ V/W.m ⁻²
c.	Temperature range	:	-40 to +80° C
d.	Range	:	0 to 2000 W.m ⁻²
e.	Temperature dependence	:	<0.1%°C
f.	Calibration traceability	:	WRR
10.	Net Radiometer Sensor		
a.	Range	:	305-2800 nm
b.	Sensitivity	:	15 μ V/W.m ⁻²
c.	Temperature range	:	-40 to +80° C
d.	Range	:	0 to 2000 W.m ⁻²
e.	Temperature dependence	:	<0.1%°C
f.	Calibration traceability	:	WRR
11.	Soil Temperature Sensor		
a.	Range	:	-10°C to 110°C
b.	Accuracy	:	$\pm 0.1^\circ\text{C}$ or better
c.	Resolution	:	0.01°C
d.	Sensor Type	:	Resistance type or equivalent
e.	Response Time	:	10 seconds or better
f.	Depths	:	Two (5 cm and 20 cm)

12.	Soil Moisture Sensor		
a.	Type	:	Gypsum Block
b.	Range	:	0 to 200 centibars suction
c.	Output	:	Change of Resistance
d.	Units	:	Percentage of moisture / mm
e.	Accuracy	:	2 per cent
f.	Resolution	:	10 centibar suction
g.	Depths	:	Ground level + Five **
13.	Leaf Wetness Sensor		
a.	Range	:	0 to 100 % of the dew range, frost & freezing conditions will not harm the sensor
b.	Operating temperature	:	-10 to +60°C
c.	Accuracy	:	0.5
d.	Unit	:	Dry/wet and duration
e.	Measurement time	:	10msec
f.	Sensor type	:	Dielectric
g.	Response time	:	0 to 100 % relative dew within six minutes
h.	Sensor output	:	Resistance varies from above 3,000,000 ohms when dry to around 1,000 ohms when wet
14.	Leaf temperature		
a.	Range	:	-10 to +60°C
b.	Accuracy	:	0.2°C
c.	Resolution	:	0.01°C
15.	Ultra Violet Sensor		
a.	Range	:	250 to 400 nanometers in $\mu\text{mol m}^{-2} \text{s}^{-1}$ (full UV in sunlight: 170 $\mu\text{mol m}^{-2} \text{s}^{-1}$)
b.	Input Power	:	None, self-powered
c.	Operating Environment	:	Outdoor use
d.	Materials	:	Photodiode with a fully-potted PVC head
16.	Evaporation Sensor		
a.	Sensor	:	Pressure Type
b.	Range	:	30 mm to 300 mm
c.	Resolution	:	1 mm
d.	Material used	:	Non corrosive
e.	Pan size	:	1220 mm diameter
f.	Pan Mounting	:	Timber frame with pan bird gauge
g.	Output	:	2 channel quadrature pulse
17.	Air Pressure Sensor		
a.	Type	:	Piezo-resistive Silicon membrane
b.	Range	:	150 mb to 1150 mBar
c.	Input Signal	:	5 V DC
d.	Output Signal	:	0.2 to 4.8 V DC
18.	Infrared Remote Temperature Sensor		This sensor is used to measures remote temperature of road, surfaces, plant canopies, soil, snow and water surfaces as well as sky temperature (net long wave radiation)
a.	Field of view	:	22° half angle
b.	Output Target Temp.	:	60 μV per °C difference from sensor body
c.	Sensor Body Temperature	:	0-2500 mV
d.	Accuracy	:	On -10 to 65 °C: ± 0.2 °C absolute accuracy
e.	Accuracy	:	On -40 to 70 °C: ± 0.5 °C absolute accuracy
f.	Response Time	:	< 1 second to change in target temperature

g.	Input Power	:	2.5 V excitation
h.	Operating Environment	:	-55 to 80 °C; 0 to 100 % RH
19.	Specifications of data processing computer		
1.	CPU	:	Intel Xeon MP 7020 2.66 GHz Dual Core Processor or better capable of Quad processing (or any latest available at the time of supply) with 1 MB L2 cache memory per core or better
2.	Mother board	:	Intel or better Original Mother Board Capable of 667 MHz FSB
3.	Slots	:	3 PCI Express and 3 PCI 64 bit or 6 PCI Express (64 bit)
4.	Memory	:	2 GB 400 MHz DDR2 RAM upgradable upto 32 GB on 16 DIMM slots
5.	Hard Disk Drive	:	3 x 120 GB or more 10000 rpm SCSI controller ultra 320 hot plug.
6.	Networking features	:	Dual LAN (10/100/1000) Network card with security management
7.	CD / DVD ROM combo drive	:	Read/Write CD ROM/ DVD with 52 X or better
8.	Monitor	:	21" color LCD monitor
9.	Keyboard	:	104 keys
10.	Mouse	:	Optical mouse (three button)
11.	Speakers	:	In-built / 320 W with multimedia compatibility
12.	Sound card	:	AGP & sound card
13.	Video controller	:	Onboard 8 MB dynamic video memory
14.	USB port	:	4 Nos.
15.	Printer Port (parallel port)	:	1 No.
16.	RS232 Port (serial port) :	:	1 No.
17.	Power supply	:	Redundant power supply
18.	Fan	:	Redundant fan
19.	PCMCIA card drive	:	In-built PCMCIA card driver
20.	DAT drive	:	External (to be provided)
21.	Modem	:	Internal 56.6 kbps (or more)
22.	Certification	:	Windows / Linux /Novell certified
23.	Pre-loaded software	:	Latest Windows LINUX Antivirus Firewall protection for networks
24.	RDBMS package	:	Oracle or equivalent latest version
25.	Printer	:	Colour Laser Jet (1200 x 1200 dpi)
26.	UPS with inverter and Maintenance-free batteries	:	12 hour back-up at full load.

SPECIFICATION OF POWER TILLER WITH ACCESSORIES

Type	Horizontal 4 stroke single cylind watercooled diesel engine.
Combustion chamber	Indirect Injection (IDI)
Bore	92mm
Stroke	95mm
Displacement	631 cc
Compression Ratio	21:1
Max. Torque	3.2 kgm / 1900 rpm
Max. HP as per IS 13539 1996	9.0hp / 2200 rpm
S.F.C. (specific fuel Cons)	195 gm / hp/hr
Governor System	Mech. Centrifugal type
Cooling System	Condenser type Thermo siphon cooling system
Starting system	Hand cranking
Lighting System	12 Volts / 35 watts
Std. Pulley (DIA)	120mm
Dry Weight	119 kgs

FUEL SYSTEM

Fuel	High speed diesel
Fuel Tank Capacity	11 ltrs.
Nozzle	Pintle Type
Oil sump capacity	2.8 Litres
Type of Lubricating	Force Feed type trochoid pump
Air Cleaner	Multistage oil bath type with cyclonic pre cleaner

- **Specification of Self Propelled field / plot combine**

Type	:	Straw walker
Cutting Width	:	3048 MM (10 Ft.)
Straw Walker	:	4 Numbers
Sieves	:	2 Numbers
Engine	:	Ashoka Leyland
Power in HP	:	110
Tyre Size	:	Front 16.9 / 28 Rear 7.50 x 16
Crop Harvests	:	Wheat, Barley, Paddy, Sunflower, Maize, Pulse and Grams
Grain Capacity	:	1400 to 2000 kg

Specification of Sprinkler System

- The system should be provided with 4" PVC pipe of 6 kg pressure and the approximate length needed is 1000 meter.
- System should be provided with six dozen of gate wall suitably fitted to connect the PVC and GI pipe along with 1" iron GI pipe having 1 meter height sufficient in number to fit over gate walls.
- Six dozen of brass made sprinkler set with connecting size of 3/4" and the area cover of at least 10 meter in circumference.

TECHNICAL SPECIFICATIONS FOR MULTISTACK INCUBATOR SHAKERS

1. System should hold up to 1-6 liter flasks.
2. Temperature control: Ambient to 80°C.
3. Have corrosion-resistant SS chamber.
4. Have internal light to offer sample visibility
5. System should have two adjustable –height shelves provide added storage
6. System can be stacked two high on the floor.
7. System should have triple eccentric drive to handle heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
8. System should Monitor and control chamber temperature range with $\pm 0.1^{\circ}\text{C}$ accuracy and $\pm 0.5^{\circ}\text{C}$ uniformity.
9. Variable speed control from 10 to 500 rpm.
10. Continuous/timed operation from 0.2 hour to 1000 hours or 0.2 minute to 1000 minutes.
11. System should display speed, operating time and temperature simultaneously on three individual LED displays.
12. System should have Visual/audible alarms that alerts if temperature deviates $\pm 1^{\circ}\text{C}$ of set point.
13. Shaker should shut down and visual/audible alarms signal if unit operates $\pm 8-10\%$ of set speed, preventing shaker from walking.
14. System should retain parameters during power failure and restarts unit automatically after power is restored.
15. System should have Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
16. System should have Safety interlock stops platform motion when lid is Opened.
17. System must be supplied with universal platform 16-18 x 16-18 inches.
18. System must be supplied with Flask Clamp Starter Kit, includes :
 - (1) microplate clamp, (2) 125 ml flask clamps,
 - (4) 250 ml flask clamps, (4) 500 ml flask clamps,
 - (2) 1L flask clamps, (2) 2L flask clamps.

LOW TEMPERATURE FREEZER (-20 DEGREE)

Exterior dimensions: 25 to 30 x 70 to 80 x 25-35 inch (wxhxd)

Volume: 20-30 cu.ft

Orientation: upright

Shelves: 2-5 adjustable full size shelves

SEED PHYSIOLOGY LAB

Name of the Equipment and Specifications
SOXHLET APPARATUS Desired Specification Power -220 – 240 V Power consumption-1000-1500 Watts Samples per batch-6 (Six samples at a time) Capacity per day-30-40 samples Measuring range- Necessary bulk handling accessories - 0.1-100% Fat Initial heat-up time- Up to 280°C within 7-8 minutes Max. water consumption for cooling-70 - 120 Litres / Hour Solvent recovery-80% or more All the steps in extraction should be automated and programmable. Necessary bulk handling accessories

DEHUMIDIFIER

Extraction capacity: 40-50 litres/24 hr

Dimensions: 50-6- x 30-40x25-35 cm

Noise level: Low

TECHNICAL SPECIFICATION OF OFFICE AUTOMATION, PRICE FORMAT & TERMS & CONDITIONS

Annexure-1

REQUIREMENTS FOR THE SOFTWARE TO BE DEVELOPED

There are mainly network seeds projects running in DSR. A significant development in the field of agricultural research in India is the formulation of All India Coordinated Research Projects (AICRPs), initially for the improvement of agricultural crops, but later extended to all aspects of crop husbandry.

Some Oil Seed Crops viz., Groundnut, Soybean and Sunflower, the seed production chain is not very efficient for various reasons like difficulty in maintenance of genetic purity in Sunflower, maintenance of seed viability in soybean and very low multiplication ration in groundnut, the Dept. of Agriculture and Cooperation, (DOAC) Ministry of agriculture, Govt. of India sponsored a separate scheme called "Annual Oilseed Scheme for Breeder Seed Production" to meet the demand of nucleus and breeder seed of these three crops.

The Mega seed Project, entitled "Seed Production in Agriculture crops and Fisheries" was carried out through 85 Centers in India including SAUs and ICAR Centers, with the objectives of providing reliable quality seed directly to the farmer's vis-à-vis stepping towards self-sustenance.

All these project is operating on annual basis and these project now coordinated by Project Director, Directorate of Seed Research. The main activity is collecting Center wise Plan Estimation, Production Detail, Production Summary, Audit Certificate Report, Revolving Fund Details, Revalidation Details etc.

1.1 Software

Major Functions of software will be:

- **Collecting Center wise Plan Estimation Report**
- **Collecting Center wise Production Detail Report**
- **Collecting Center wise Production Summary Report**
- **Collecting Center wise Audit Certificate Report**
- **Revolving Fund Details**
- **Revalidation Details**

Software function:

- Allotment of Login id and password to guests on submission.
- Providing the details like Center Details, Nodal Officer Details, Contact Details
- Providing Full Details like Seeds, Seed Class, Seasons etc
- The system should facilitate Year wise operating features
- Managing replication of Center details in account module

- Use the once entered records for life time for the repeated Centers
- The system should facilitate for status tracking for blocked dates
- The system should have an operational integration between Center and DSR Office
- The System Should support Action Taken report format
- The System Should support Collecting Station wise Plan Estimation Report
- The System Should support Collecting Station wise Production Detail Report
- The System Should support Collecting Station wise Production Summary Report
- The System Should support Collecting Station wise Audit Certificate Report
- The System Should support Revolving Fund Details
- The System Should support Revalidation Details
- The System Should support Center wise & Crop Wise Information (T1)
- The System Should support Crop wise & Center wise Information(T2)
- The System Should support Center wise (Total) Information(T3)
- The System Should support Croppies Total Information(T4)
- The System Should support BSP of Groundnut/Soybean/Sunflower(T5-T7)
- The System Should support BSP Reports (1-6) National Variety
- The System Should support Season wise Seed Production(Kharif,rabi)
- The System Should support Planting Materials/Tissue Culture plants
- The System Should support Fisher's Components
- The System Should support Seed Production in institute/Farmer field
- The System should support Seed Class Wise / Season Wise Report/Institute-Farmer
- Ability to provide Updating of all entries

Reports

- Crop Group & Variety wise /Seed Class (T1)-Institute (Karif)
- Crop Group & Variety wise /Seed Class (T2)-Farmer (Karif)
- Crop Group & Variety wise /Seed Class (T1)-Institute (Rabi)
- Crop Group & Variety wise /Seed Class (T2)-Farmer (Rabi)
- Crop wise /statewide/variety wise/Year wise
- State wise & Crop wise analysis -Diagrams/Graphs
- Crop wise/State wise analysis -Diagrams/Graphs
- Center wise Tentative Target Production
- Crop wise/variety wise production in Map Format
- Crop wise analysis -year wise -Projection(Pie/Bar Graphs)
- Crop / Variety Details with Images
- Graphical Representation of different Classes of seeds(KG->Ns-Bs-Fs-Cs-Tf)
- Season wise Short fall analysis
- Seed Class Wise / Season Wise /Year wise Analysis
- Crop group /Year wise / Analysis
- Center wise seed production Target-Plan(Year wise)
- Variety wise details in a particular Area
- Center wise Equipment Details
- Last 10 year data analysis
- Ability to perform trend analysis.

Accounts reports

- Center Wise Plan Estimation Report(Year-Wise)
- Center Wise Plan Analysis (Updating)
- EFC Report

- Center wise Audit Certificate Report
- Statement of Expenditure(Budget Head-Sanctioned-Exp)
- Center wise Remittance Details
- Center Wise Fund Release Tracking
- Center wise Fund Status
- Revalidation Status
- Center wise/ICAR/State share
- Revolving Funding details (crops/Fisher's)
- Revolving Funding details (FC/HC/FC)
- Revolving Fund Summary/Year wise
- Budget Head Wise analysis (TA/HRD/RC/NRC)
- Center wise /state wise Budget analysis
- Unspent Balance Tracking
- Action taken Report
- Center wise Photo Gallery(Crops, Infrastructure)
- Circular Attachment and Alert
- Center wise Fund Status-Sanctioned, Released, Balance etc)
- Facility of receiving feedback from Centers / Nodal Officers
- Financial year wise analysis Report
- Ability to provide analysis for optimization of cash flows.

Suggested/Existing Reports with the consultation with centre and regional centre

Network Projects need the following information

- Center wise & Crop Wise Information (T1)
- Crop wise & Center wise Information (T2)
- Center wise (Total) Information (T3)
- Crop wise Total Information (T4)
- BSP of Groundnut/Soybean/Sunflower (T5-T7)
- BSP Reports (1-6) National Variety NSP
- Season wise Seed Production (Kharif, Rabi)
- Planting Materials/Tissue Culture plants MSP
- Fisher's Components MSP
- Seed Production in institute/Farmer field MSP
- Seed Class Wise / Season Wise Report/Institute-Farmer
- Crop Group & Variety wise /Seed Class (T1)-Institute (k)
- Crop Group & Variety wise /Seed Class (T2)-Farmer(k)
- Crop Group & Variety wise /Seed Class (T1)-Institute(R)
- Crop Group & Variety wise /Seed Class (T2)-Farmer(R)
- Crop wise /statewide/variety wise/Year wise
- State wise & Crop wise analysis -Diagrams/Graphs
- Crop wise/State wise analysis -Diagrams/Graphs
- Center wise Tentative Target Production

- Crop wise/variety wise production in Map Format
- Crop wise analysis - year wise – Projection (Pie/Bar/Graphs)
- Crop/ Variety Details with Images
- Graphical reps of diff Classes of seeds (KG->NS-BS-FS-CS-TF)
- Season wise Short fall analysis
- Seed Class Wise / Season Wise/ Year wise Analysis
- Crop group / Year wise/ Analysis
- Center wise seed production Target-Plan (Year wise)
- Variety wise details in a particular Area
- Center wise Equipment Details
- Last 10 year data analysis

Accounts for seeds process

- Center Wise Plan Estimation Report (Year-Wise)
- Center Wise Plan Analysis (Updating)
- EFC Report
- Center wise Audit Certificate Report
- Statement of Expenditure (Beget Head-Sanctioned-Exp)
- Center wise Remittance Details
- Center Wise Fund Release Tracking
- Center wise Fund Status
- Center wise/ ICAR/State share
- Revolving Funding details (Crops/Fisher's)
- Revolving Funding details (FC/HC/FC)
- Revolving Fund Summery /Year wise
- Budget Head Wise Analysis (TA/HRD/RC/NRC)
- Center wise/ state wide Budget analysis
- Unspent Balance Tracking
- Action taken Report
- Center wise Photo Gallery (Crops, Infrastructure)
- Circular Attachment and Alert
- Center wise Fund Status-Sanctioned, Released, Balance etc.)

Revolving Fund, DSR Farm and Seed Village Scheme

1. Major Functions:

- Seed Production
- Seed Processing
- Seed Storage
- Bill Payment
- Cash Deposit

2. Registers and Books of Accounts Maintained

- Hand Over Take Over Register
- Day Book of Weighment
- Produce Register

PA Cell of Project Director

1. Major Functions:

- Receiving Outside Letter and Forward to Concerned Department
- Preparing Letters and forward to Concern Departments
- Prepare Internal Notes, Circular and Send it to Respective Department
- Internal File Receiving and Forward

2. Registers and Books of Accounts Maintained

- Delivery Book
- Inventory Register

ADMINISTRATIVE CELL

1. Establishment

- Maintenance of Cadre Strength, Staff position and Seniority list
- Recruitment and Promotion
- Joining and Transfer of Staff
- Fixation of pay and increment
- Training and Tour Programme
- Dispatch and Receiving the file
- File movement
- Issue the Circular, Note and other order
- Etc.

2. Welfare and Public Grievances

- Institute Staff Welfare Fund
- Institute Joint Staff Council
- Institute Women Complain Committee

3. Work

- New Work
- Repair and Maintenance work

4. Hindi Publication

5. Information asked by Parliament and its required

6. Common Office Service

7. RTI

8. Vigilance

FINANCE CELL

1. Major Functions:

- Cheque Generations
- Bank Reconciliation
- Annual Account Preparation (Main Account, GPF, CPF etc.)
- Voucher Tracking
- Cash Book (Main, Revolving Fund)
- EMD Deposit Tracking (Bid Security Tracking)
- Budget Tracking

- Budget Estimate
- Advance Tracking
- Covering Letters & Sending to respective parties, Departments
- GPF Tracking

2. Registers and Books of Accounts Maintained

- DSR Cash Book – Voucher No Starts from 5000
- Revolving Fund Cash Book Voucher No Starts from 7000
- Advance Register
- EMD Register
- Budget Tracking (In/Out)
- Short Term Deposit (Investment)

DDO CELL

1. Major Functions:

- Preparing & Passing Pay Bills
- Sanction of Increments
- Scrutiny & Passing TA & Medical reimbursement bills
- Generate Pay bill, Pay slip
- Preparing Supplementary Bills for Arrears, DA, HRA etc.
- Preparing Encashment bills
- Verifying and Passing All Expenditure Bills like CPWD, any purchase bills (Contingent)
- Internal Recruitment Process
- Marinating Service Record
- Daily Vehicle Allotment and Maintenances
- Issuing form 16

2. Registers and Books of Accounts Maintained

- Pay Bill Register
- Cash book Register for DDO
- Personal Claim Register

Store & Purchase Section

1. Major Functions:

- Receiving the indent and purchase
- Publishing Tender Documents
- Tender Process for Purchase
- Prepare Comparative Statement
- Arranging for Purchase of Items
- Prepare Job Rate Contract
- Asset Tracking
- Consumable Items Tracking
- Arranging for taking imported Equipments
- Store verification

2. Registers and Books of Accounts Maintained

- Invoice Register
- Consumable Register
- Non-Consumable Register

Term and Conditions only for office automation

1. Web base MIS software for DSR should able to give the above stated reports as required by DSR head office and all the regional and sub center.
2. DSR will not make any payment for the initial study required for the Purpose of submitting quotation.
3. The Software can be developed open source platform or window platform preferably **Oracle, windows, NET, Java or PHP** , source code and software & configuration shall be provided to the DSR with proper documentation by developer.
4. The developed Software shall be handed over to DSR before taking full payment. Developer shall provide all technical support/ modifications in the program for a period of 12 months from date of web-implementation.
5. Deliverables shall include program file, source code, system documentations, user's manual etc.
6. DSR work includes:

The Vendor shall provide comprehensive and coordinated services involving the following for the realization of complete assignment.

Functional & Systems Study	Study of existing software systems, procedures, Departmental functional requirements, business processes, user requirements and finalize the baseline requirement Resulting in SRS preparation.
Design	All Design Parameters will be discussed and finalized during the finalization of System Requirement Specification (SRS) Finalization.
Security Architecture	Design of the Security Architecture, preparation and implementation of a Security Administration Plan for the system.
Development	Development of the application software based on the System specification frozen during systems study. DSR team will review the code developed by the vendor.
Testing	Prepare Test specification, test data and test the application and document test results using automated Testing Tools.
Acceptance Criteria	<ol style="list-style-type: none">1. SRS finalization and approved by DSR.2. Acceptance of Prototype.3. Application design including database design shall be approved by DSR.4. Test plan finalization and approved by DSR.5. Test Results acceptance.6. User Acceptance of User Interface design of application.

7. The List of deliverables for the project

1. Software Requirement Specification
2. System Design Document

3. Information Security Document
4. Application software with complete Source Code and configuration setting at the end of warranty period.
5. End User Manuals.

Note: All the above documents shall be submitted as a set of 3 hard copies (1 original and 2 Duplicates) along with a 1 soft copy of CD/DVD media.

General details about the scope of work

1. Cost of software development and implementation at DSR head office with 3 regional centers (one time)
2. Cost of implementation application software on an external web server (in data center or in-house server) (one time)
3. Cost of Web Server Space 1U/2U per year in data center
4. Cost of Additional server space in data center per year in data center
5. Cost of additional traffic per 1 GB
6. Data base maintenance charges and application software maintenance charges per year and any other
7. The application software and data base needs to install in web server in data center.
8. Requirements and specification for Hardware, Software (OS/RDBMS Etc.) and Networking for hosting the web server.
9. **This has to be configuring for DSR Head office with three different regional centers in India (Bangalore, Hyderabad and Jabalpur (MP)).**
10. Create the online help so other center and regional center are able to use the same.
11. Time required for software development and implementation: Maximum four months from the date of award of work order.
12. Details of similar projects executed or work experience with account system in Agriculture Universities.
13. Details of existing customers and their contact nos.
14. **Payment terms:** DSR shall make 50% advance payment against Bank Guaranty of equivalent amount if the bidder asks for or / and balance 50% / 100% payment shall be released after software development, its successful web-implementation and software delivery with all program files/data to DSR. The software developer shall provide technical support and modification desired if any for a period of 12 months from the date of successful web implementation of the developed application software.
15. Vendor shall sign on a Non-Disclosure Agreement (NDA).
16. Vendor shall provide comprehensive warranty for a period of one year from the date of acceptance of solution.
17. The Competent authority has discretion power to execute, with held or cancels the tender without any reason/notice.
18. Work of Office automation has been bifurcation in four parts where developer has right to quote for all or anyone of them but he has to attach the mention EMD under office automation.
19. The competent authority has power to invite the firm(developer) for negations who is beneficial and economical for DSR in view of competent authority.

Details for pricing for office automation

Sl. No.	Description	Unit	Price in Indian Rs.
A	Web base software development for		
A-1	These include software, SRs with design, development and testing and do the necessary correction as per detail enclosed in technical specification as above with implementation.	One time	

B	Implementation of application software at DSR or other data centre		
B-1	Price for server hosting charges at data centre with ISP or VSNL and other Agency with require public IP and other security standard for web hosting with data backup system in place as per global std.	Per year	
B-2	Additional cost for additional data transfer for 1 GB Per month or per years	Per year	

C	Support for web server and database Technical support and correction after warranty period		
C-1	Web server- Annual support charges for maintenance of web server and application software and data base.	Per year	
C-2	Hosting charges the 1/2U Server at Data Centre per year per server at ISP with public IP Address with par security standard for server with data backup system in place.	Per year	

D	Rental charges for the 1U or 2U server for web hosting (hardware with OS)		
D-1	1U or 2U Server rental the Std. configuration with window server OS with required data base. Server will be kept at data Center and maintenance of server OS, with antivirus, keep the server 99.9% uptime. With all the technical support for server.	Per year	

Seed Coat Colour Sorting Machine

Technical Specifications

Machine should be used to treat/coat Chemical, Colour, and Polymer on Field crop seeds and Vegetable seeds. Machines are on ROTOSTAT technology.

Coating machine should be fully automatic machine

with a batch size of 15 to 20 kg and can give an output of 1.5 to 2T per hour per hour .It should be suitable for all Field crops and vegetables.

Main components :

A.Seed Feeding Unit

Hopper Capacity: 15 to 25kg

Level is controlled by a “High accurate precision Sensor”

Machine should have housing with PU moulded Peddler which can be used for accurate feeding and to eliminate seed damage during feeding.

It should have

- a. Cast steel and machined disc
- b. Top surface of the disc has to be rubberized
- c. Perfect Angle matching between Main disc and base which should prevent seeds accumulation at this zone and damages to the seeds.

B.Auto Dump gate: Pneumatic cylinder for opening and closing of the gate. After completion of the treatment the gate should open automatically to send the seed out of the machine.

C.Peristaltic pump: It should give accurate dosing, No leakages whatsoever, it should avoid any back flow

D. Control Panel: It should have separate control panel, auto/Manual options, programmable Logic Controller and operator friendly timer setting.

E.Chemical Mixing Tank: Tank Capacity is around 150L made of stainless steel and have provision for continuous slurry mixing arrangement using geared motor for mixer.